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PubMed Central☐ 1: Mol Cell Biochem. 2005 Jun;274(1-2):77-84.[Related Articles, Links](#)**Downregulation of CK2 induces apoptosis in cancer cells--a potential approach to cancer therapy.****Wang G, Unger G, Ahmad KA, Slaton JW, Ahmed K.**

Cellular and Molecular Biochemistry Research Laboratory (151), Minneapolis Veterans Affairs Medical Center, Minneapolis, MN 55417, USA.

We have previously documented that naked antisense CK2alpha ODN can potently induce apoptosis in cancer cells in culture and in mouse xenograft human prostate cancer. The effects of the antisense CK2alpha are related to downregulation of CK2alpha message and rapid loss of the CK2 from the nuclear compartment. Here we demonstrate that downregulation of CK2 elicited by diverse methods leads to inhibition of cell growth and induction of apoptosis. The various approaches to downregulation of CK2 employed were transfection with kinase-inactive plasmid, use of CK2alpha siRNA, use of inhibitors of CK2 activity, and use of antisense CK2alpha ODN packaged in sub-50 nm nanocapsules made from tenascin. In all cases, the downregulation of CK2 is associated with loss in cell survival. We have also described preliminary observations on an approach to targeting CK2 in cancer cells. For this, sub-50 nm tenascin-based nanocapsules bearing the antisense CK2alpha ODN were employed to test that the antisense is delivered to the cancer cells in vivo. The results provide the first preliminary evidence that such an approach may be feasible for targeting CK2 in cancer cells. Together, our results suggest that CK2 is potentially a highly plausible target for cancer therapy.

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2: Iannuccelli V, Sala N, Tursilli R, Coppi G, Scalia S. Related Articles, Links

 Influence of liposphere preparation on butyl-methoxydibenzoylmethane photostability.
Eur J Pharm Biopharm. 2006 Jun;63(2):140-5. Epub 2006 Mar 13.
PMID: 16531026 [PubMed - in process]

3: Attama AA, Mpamugo VE. Related Articles, Links

 Pharmacodynamics of piroxicam from self-emulsifying lipospheres formulated with homolipids extracted from Capra hircus.
Drug Deliv. 2006 Mar-Apr;13(2):133-7.
PMID: 16423801 [PubMed - indexed for MEDLINE]

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 In vitro characterization of carbamazepine-loaded precifac lipospheres.
Drug Deliv. 2006 Mar-Apr;13(2):95-104.
PMID: 16423797 [PubMed - indexed for MEDLINE]

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 The expulsion of lipophilic drugs from the cores of solid lipid microspheres in diluted suspensions and in concentrates.
Int J Pharm. 2006 Mar 9;310(1-2):64-71. Epub 2006 Jan 18.
PMID: 16413712 [PubMed - indexed for MEDLINE]

6: Tursilli R, Casolari A, Iannuccelli V, Scalia S. Related Articles, Links

 Enhancement of melatonin photostability by encapsulation in lipospheres.
J Pharm Biomed Anal. 2006 Mar 3;40(4):910-4. Epub 2005 Oct 19.
PMID: 16242283 [PubMed - in process]

7: El-Gibaly I, Abdel-Ghaffar SK. Related Articles, Links

 Effect of hexacosanol on the characteristics of novel sustained-release allopurinol solid lipospheres (SLS): factorial design application and product evaluation.
Int J Pharm. 2005 Apr 27;294(1-2):33-51.
PMID: 15814229 [PubMed - indexed for MEDLINE]

8: Shortencarrier MJ, Dayton PA, Bloch SH, Schumann PA, Matsunaga TO, Ferrara KW. Related Articles, Links

 A method for radiation-force localized drug delivery using gas-filled lipospheres.
IEEE Trans Ultrason Ferroelectr Freq Control. 2004 Jul;51(7):822-31.
PMID: 15301001 [PubMed - indexed for MEDLINE]



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2: Dupeyron D, Gonzalez M, Saez V, Ramon J, Rieumont J.

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Nano-encapsulation of protein using an enteric polymer as carrier.
IEE Proc Nanobiotechnol. 2005 Oct;152(5):165-8.
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3: Mizushima Y, Ikoma T, Tanaka J, Hoshij K, Ishihara T, Ogawa Y, Ueno A.

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J Control Release. 2006 Jan 10;110(2):260-5. Epub 2005 Nov 28.
PMID: 16313993 [PubMed - indexed for MEDLINE]

4: Venkatesan N, Yoshimitsu J, Ito Y, Shibata N, Takada K.

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Liquid filled nanoparticles as a drug delivery tool for protein therapeutics.
Biomaterials. 2005 Dec;26(34):7154-63.
PMID: 15967493 [PubMed - indexed for MEDLINE]

5: Acosta EJ, Nguyen T, Withayapanyanon A, Harwell JH, Sabatini DA.

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Linker-based bio-compatible microemulsions.
Environ Sci Technol. 2005 Mar 1;39(5):1275-82.
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6: Zhang J, Han B, Chen J, Li Z, Liu Z, Wu W.

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Synthesis of Ag/BSA composite nanospheres from water-in-oil microemulsion using compressed CO2 as antisolvent.
Biotechnol Bioeng. 2005 Feb 5;89(3):274-9.
PMID: 15744837 [PubMed - indexed for MEDLINE]

7: Allen NS, Edge M, Sandoval G, Verran J, Stratton J, Maltby J.

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Photocatalytic coatings for environmental applications.
Photochem Photobiol. 2005 Mar-Apr;81(2):279-90.
PMID: 15279507 [PubMed - indexed for MEDLINE]

8: Pfeifer BA, Burdick JA, Langer R.

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Formulation and surface modification of poly(ester-anhydride) micro- and nanospheres.
Biomaterials. 2005 Jan;26(2):117-24.
PMID: 15207458 [PubMed - indexed for MEDLINE]

9: Oyewumi MO, Yokel RA, Jay M, Coakley T, Mumper RJ.

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Comparison of cell uptake, biodistribution and tumor retention of folate-coated and PEG-



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PMID: 16313993 [PubMed - indexed for MEDLINE]

☐ 2: Zhuang FF, Liang R, Zou CT, Ma H, Zheng CX, Duan MX.

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High efficient encapsulation of plasmid DNA in PLGA microparticles by organic phase self-emulsification.

J Biochem Biophys Methods. 2002 Aug-Sep;52(3):169-78.
PMID: 12376020 [PubMed - indexed for MEDLINE]

☐ 3: Yeh MK, Tung SM, Lu DW, Chen JL, Chiang CH.

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Formulation factors for preparing ocular biodegradable delivery system of 5-fluorouracil microparticles.

J Microencapsul. 2001 Jul-Aug;18(4):507-19.
PMID: 11428679 [PubMed - indexed for MEDLINE]

☐ 4: Lu DW, Chang CJ, Chiang CH, Yeh MK, Chou PL.

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Wound modulation after trabeculectomy by different formulations of antimetabolites in rabbits.

J Ocul Pharmacol Ther. 2000 Dec;16(6):529-38.
PMID: 11132900 [PubMed - indexed for MEDLINE]

☐ 5: Yeh MK.

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The stability of insulin in biodegradable microparticles based on blends of lactide polymers and polyethylene glycol.

J Microencapsul. 2000 Nov-Dec;17(6):743-56.
PMID: 11063421 [PubMed - indexed for MEDLINE]

☐ 6: Podual K, Doyle EJ 3rd, Peppas NA.

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Dynamic behavior of glucose oxidase-containing microparticles of poly(ethylene glycol)-grafted cationic hydrogels in an environment of changing pH.

Biomaterials. 2000 Jul;21(14):1439-50.
PMID: 10872773 [PubMed - indexed for MEDLINE]

☐ 7: Singh M, Carlson JR, Briones M, Ugozzoli M, Kazzaz J, Barackman J, Ott G, O'Hagan D.

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A comparison of biodegradable microparticles and MF59 as systemic adjuvants for recombinant gD from HSV-2.

Vaccine. 1998 Nov;16(19):1822-7.
PMID: 9795387 [PubMed - indexed for MEDLINE]

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